

MPE Calculation / RF Exposure

Applicant : 8CUPS INC.

Product : eightcups

Model : EB001

FCC ID : 2AIBB-EB001

Per KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) section 4.3.1 (a)

Stand alone SAR test exclusion threshold is applied;

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

- where $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

Tune-up max. power : 0.1977 mW

Min. Test separation distance : 5 mm

SAR exclusion threshold: $\left[\frac{0.1977}{5} \right] \times [2.412] = 0.095$ (=0.1, is rounded to one decimal place)

Therefore, the EUT was not evaluated as the value of SAR exclusion threshold was less than 3 per KDB 447498 D01 v06 section 4.3.1(a)